BRYSTON
OWNER'S MANUAL

Instructions For Bryston

Phono Stage

Model BP 1.5

GENERAL INSTRUCTIONS

Warranty Information:

Thank you for choosing a Bryston product. We welcome any suggestions you may have, or comments regarding the operation of your amplifier. We consider you, our customer, to be Bryston's most important resource, and your opinion is very much appreciated.

Bryston products are warranted to be free from manufacturing defects for a minimum of 20, (twenty), years from the original date of manufacture. This includes all parts, labor and one-way return shipping. This warranty covers the original owner and any subsequent owners. The warranty is retroactive for any Bryston product purchased within the last twenty years. Tampering by anyone other than factory authorized personnel voids the warranty. Warranty service may be obtained by returning the unit to any authorized Bryston dealer or distributor. You may also contact the Bryston factory or national service offices directly at the location listed on the rear page of this manual.

Please keep the original box and all packing material. This will ensure the amplifier is protected in the unlikely event you have a problem and must return it for service. No warranty card is necessary to initiate your coverage. Please refer to the back page for more detailed warranty information.

Bryston BP1.5 Description:

The Bryston BP1.5 Phono Stage is a high quality broadcast grade Phono Stage offering both Moving Magnet and Moving Coil cartridge step-up capabilities.

The BP1.5 comes with an separate outboard power supply to minimize noise and distortion.

The BP1.5 can be used without an additional power supply if you currently own a Bryston BP20 or BP25 Preamplifier. The outboard power supply for the BP20/25 can be utilized to power the BP1.5 as well with the supplied cable.

(See Figures 1 and 2 , Page 5)

Input Capacitance Loading for MM Section:

The Moving-magnet input capacitance switch is located on the rear panel and consists of a four element DIP (Dual In Line) switch and eight high precision capacitors (4 capacitors for the left and 4 capacitors for the right channel). This ensures the correct amount of capacitance across the phono cartridge to provide accurate performance.

Each switch adds in one capacitor (47 pf). Switches 1 to 4 add capacitance to BOTH LEFT and RIGHT inputs simultaneously . Any or all of the DIP switches may be activated (placed in the upper position for On) at one time or, in the lower position (Off), meaning no capacitance is placed across the phone inputs. As each capacitor is switched in the total capacitance increases cumulatively Total value for each channel is 188 pf per channel

(See Figure 4, Page 4)

PLEASE REFER TO: "BRYSTON'S SAFETY MANUAL" FOR FURTHER OPERATING INSTRUCTIONS.

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BP 1.5 Description

Turn On Relay:

The BP1.5 utilizes an output shunting relay with approximately a 3 second delay at start-up to allow any system transient/thumps to settle out before connecting the signal. The front panel LED turns Red on power up and clicks to Green when status is confirmed.

Mute Switch :
The Manual MUTE switch on front panel can be activated at any time. This switch mutes the output and is indicated by the front panel LED turning from Green to Red.

Mute Relay :
When you power down the BP1.5, by turning off the outboard power supply the mute relay is activated and the LED will go from Green to Red. then Off This prevents any power supply decay artifacts from reaching the outputs.

Preamplifier Gain:

BP1.5 includes two different amplifier modes to accommodate both MM (moving-magnet) and MC (moving-coil) Phono Cartridges.

The Moving-Magnet mode comes factory set at 35dB of gain but can be adjusted with an inside jumper to 41dB gain. (See figure 3, Page 3)

The Moving-Coil mode adds an addition gain stage to the MM stage with a step-up transformer. This step-up transformer has adjustments for gain as well. It can be set for 22.5dB or 16.5dB of gain. It is factory set for 22.5dB as this will facilitate 90% of the MC cartridges available. The standard gain of 22.5dB accommodates cartridges with outputs of less than 40 ohms impedance. The 16.5dB of gain is for cartridges of 40 to 150 ohm output impedance.

Figure 3

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Bryston's BP1.5 Specifications:

Frequency response: (With Inverse RIAA filter)
MC mode; Between 20Hz to 20KHz less than +/- 0.5 dB.
MM mode; Between 20Hz to 20KHz less than +/- 0.1dB

Rated output:
5 Volts RMS

High level sensitivity:
MM mode; 5 mV
MC mode; 500uV

Distortion:
Less than .005% IM or THD, any frequency or combination of frequencies from 20Hz-20kHz at rated output

Rated noise: (with A Weighting filter)
MM mode; -80 dBA referred to an input of 5 mV RMS @ 1kHz
MC mode; -80 dBA referred to an input of 0.5 mV RMS @ 1kHz

Gain:
MM mode; 35 dB or 41 dB (internally changeable). Factory set gain; 35dB
MC mode; 51.5 dB , 57.5 dB or 63.5 dB (internally changeable). Factory set gain; 57.5 dB

Features:
1 pair Power supply input and outputs
1 pair RCA inputs and outputs

Dimensions:
17 x 7.2 x 1.75 inches
43.2 x 18.3 x 4.5 Cm

Weight:
5.1 lbs, 2.3 Kg

Options:
19 inch faceplate
19 inch Rack Mount Ears
Silver faceplate

Figure 4

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Typical Hookup:

Shown below is a typical hookup using a BP 1.5 Phono Preamplifier with and without a Bryston BP 25 Preamplifier.

Figure 1 and 2

BRYSTON 20 -YEAR WARRANTY

Bryston products are warranted to be free from manufacturing defects for a minimum of twenty years from the original date of manufacture. This includes parts, labour and return shipping to the first owner and all subsequent owners. Warranty coverage is automatic and commences with the original date of manufacture which is kept on file at Bryston.

In the event of a defect or malfunction, Bryston will remedy the problem by repair or replacement, as we deem necessary, to restore the product to full performance.

This warranty is considered void if the defect, malfunction or failure of the product or any component part was caused by damage (not resulting from a defect or malfunction) or abuse while in the possession of the customer. Tampering by persons other than factory authorized service personnel, or failure to fully comply with Bryston operating instructions, voids the warranty.

This warranty gives you specific legal rights and you may also have other rights which may vary from province to province and country to country.

FOR BRYSTON SERVICE OUTSIDE CANADA:
CONTACT YOUR LOCAL DISTRIBUTOR
OR CHECK OUR WEB SITE AT:
www@bryston.ca
OR
CALL BRYSTON DIRECTLY AT:
PHONE: 705-742-5325
FAX: 705-742-0882

BRYSTON LTD.
P.O. BOX 2170, 677 NEAL DRIVE
PETERBOROUGH, ONTARIO
CANADA K9J 7Y4
PHONE: 705-742-5325
FAX: 705-742-0882

BRYSTON SERVICE U.S.A.:
30 COVENTRY ST.
NEWPORT VERMONT.
U.S.A. 05855
PHONE: 802- 334-1201
FAX: 802-334-6658

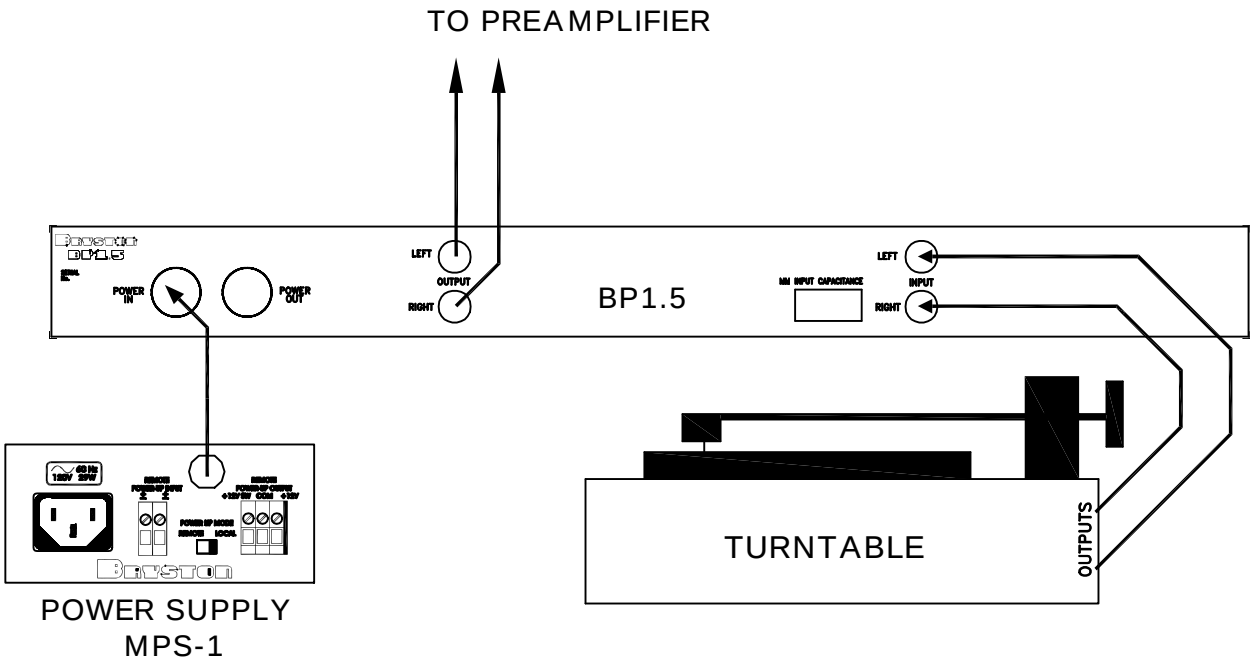


FIGURE 1

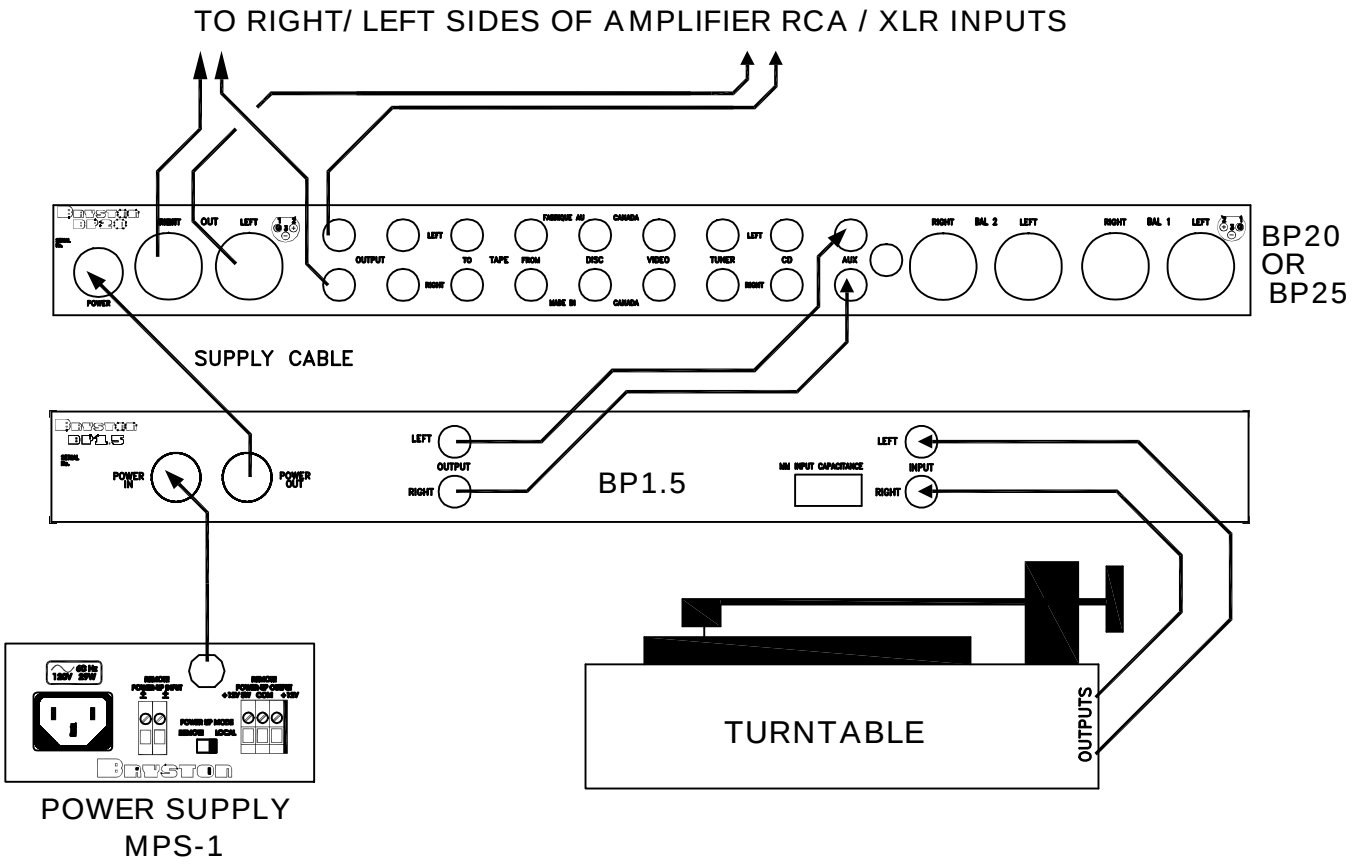


FIGURE 2

INSTRUCTION FOR SETTING DIFFERENT GAIN BY USING JUMPERS

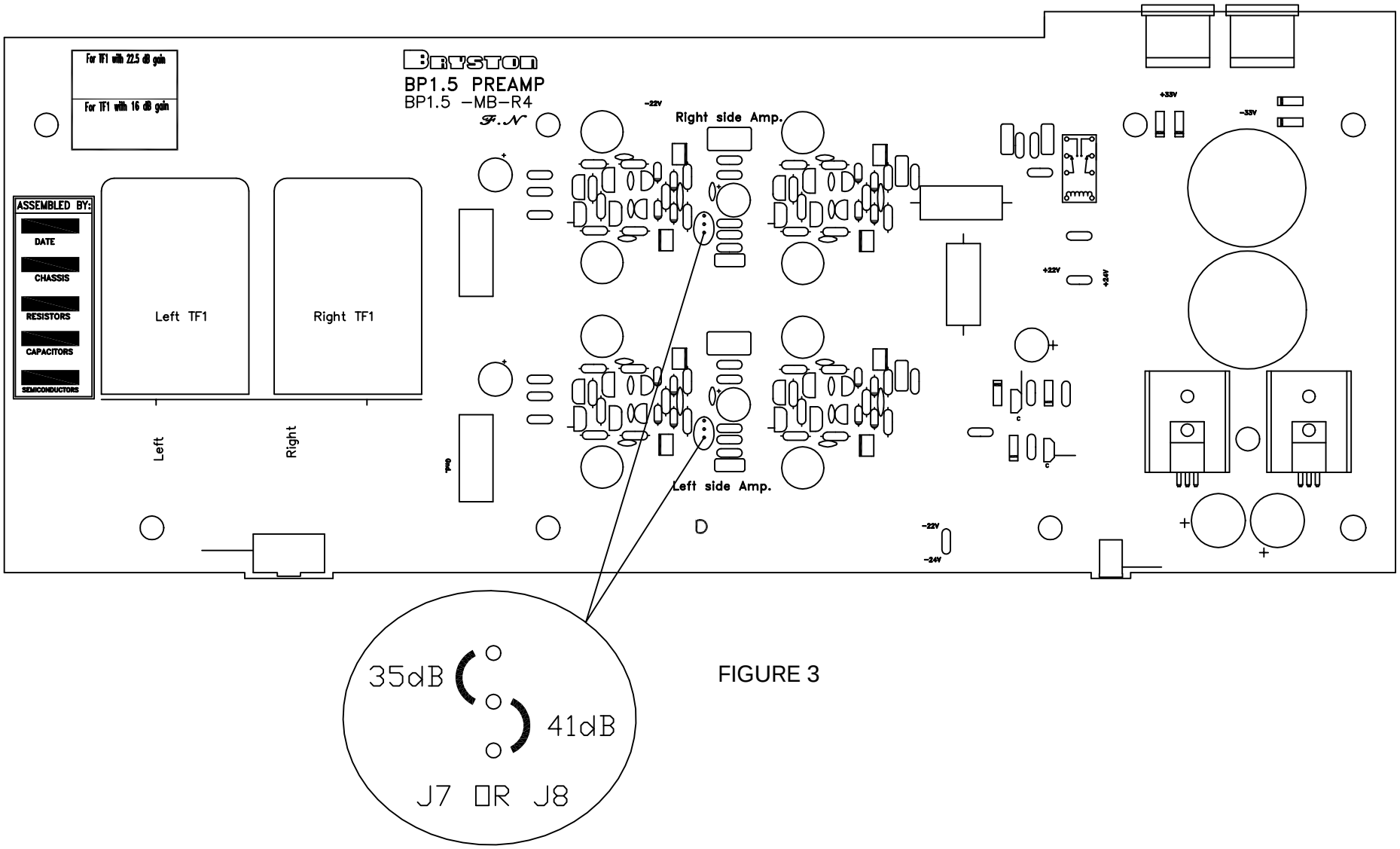
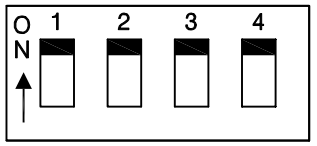


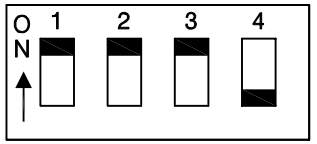
FIGURE 3

INSTRUCTION FOR MM INPUT CAPACITANCE LOADING SWITCH

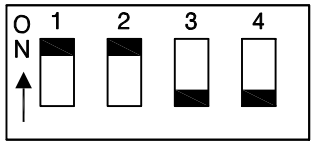
Maximum input capacitance is 188pf



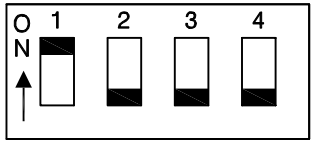
Total input capacitance is 141pf



Total input capacitance is 94pf



Total input capacitance is 47pf



There is no input capacitance in this case

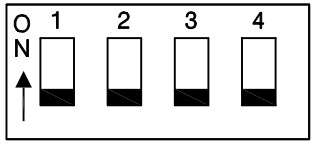


FIGURE 4